

## ABSTRACT OF THE DISCLOSURE

A system and method for providing "static analysis" of programs to aid in improving runtime performance, stability, security and privacy characteristics of deployed application code. The method includes performing a set of analyses that sifts through the program code and identifies programming security and/or privacy model coding errors. In particular the invention focuses on identifying coding errors that cause loss of correctness, performance degradation, security, privacy and maintainability vulnerabilities. A deep analysis of the program is performed using detailed control and data flow analyses.